

Defense Ammunition Center

Course Catalog

<http://www.dactces.org/>

Ammo-01 Conventional Ammunition Orientation (9E-F62/920-F30)

This course provides students with technical information on various types of conventional munitions. Included are topics covering the Federal supply and ammunition lot numbering systems, identification of ammunition items, DoD publications, and ammunition drawings.

Ammo-04 Ammunition Demilitarization (9E-F63/920-F31)

This course provides training for ammunition personnel in the various methods, procedures, and techniques of performing ammunition demilitarization. Emphasis is placed on procedures required for open burning and detonation. Students are introduced to the emerging technologies for resource recovery and recycling. This course includes a live explosives exercise in which students will conduct set-up and detonation using both electric and non-electric methods on the demolition range. Training is also provided on the changing impact of environmental requirements and decontamination methods.

Ammo-10-DL Ammunition Quality Assurance (9E-F62/920-F29 (DL))

This course provides an overview of ammunition surveillance tasks including inspections, ammunition data cards (ADCs), condition codes, defect codes, and depot surveillance records (DSRs) for conventional and missile munitions. The course also introduces the Munitions History Program (MHP). You will learn about what it contains, how to find it, and how it will help you with surveillance tasks. To learn how to use MHP, register in ATRRS for course number 4E-F64/645-F48 (formerly Ammo-97-DL).

Ammo-12 Ammunition Storage (4E-F22/645-F9 (MC))

This course provides basic information and training in the use and application of governing regulations and procedures for safety and security of ammunition and explosives in storage. The course provides a working knowledge of wholesale storage operations mainly at the depot level. The training includes storage facilities, physical security, safety, drawings and planographs, as well as administrative documentation applications.

This course meets the requirements of U.S. Army Materiel Command Regulation (AMC-R) 350-4 Training and Certification Program for Personnel Working in Ammunition Operations and AMC-R 385-100 Safety Manual and Department of the Army Pamphlet 385-64 Ammunition and Explosives Safety Standards.

Ammo-14 Ammunition Surveillance (4E-F31/645-F15)

This course provides an introduction to basic procedures and actions associated with inspecting a range of ammunition items to determine serviceability, to include applicable computer-generated forms and reports. Students will learn the procedures for inspecting ammunition facilities, monitoring various ammunition operations, and determine the equipment, tools, and reference materials needed to perform ammunition inspections and tests. Students will also learn about the administrative methods used to clear ammunition lots for shipment, suspension and restriction controls, and inspection procedures for both outbound and incoming ammunition shipments.

Ammo-18-DL Basics of Naval Explosives Hazard Control (4E-F29/645-F13 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It is designed to teach basic hazards of ammunition and explosives, along with an introduction to explosives safety principles and practices. This course presents the basic hazards of ammunition and explosives, along with an introduction to explosives safety principles and practices. Characteristics of ammunition and explosives, storage compatibility, and quantity distance requirements are introduced. Control of hazards, transportation, and various handling operations are also covered. An explanation of the Navy Safety and Qualification/Certification program will be given.

Ammo-28 Army Electrical Explosives Safety (4E-F32/645-F16 (MC))

Course provides basic regulatory guidance and familiarization with methods and procedures to correctly inspect, test, document and manage electrical safety aspects that apply to explosives storage and operating facilities. An overview of static electricity generation and control, electromagnetic radiation hazards to ordnance, fuel and personnel, and electrical equipment requirements for hazardous (classified) locations. Content includes lightning generation and its effects in regard to personnel, equipment, and structures. Identification of Lightning Protection System (LPS) design criteria and requirements, computing zones of protection, requirements for bonding and LPS component specifications. LPS inspection and testing methodology, test equipment operation, and effective record keeping are stressed. Both Army guidance and National Fire Protection Association Standards are utilized.

Ammo-29 Navy Electrical Explosives Safety (4E-F34/645-F18 (MC))

This course provides the basic regulatory guidance to correctly inspect, test, document, and manage electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. Course content includes the identification of lightning protection systems and components, design criteria, and requirements for grounding, bonding, control of static electricity, and electrical equipment in hazardous (classified) locations. An overview of the Hazards of Electromagnetic Radiation to Ordnance (HERO), Fuel (HERF), and Personnel (HERP) is also presented.

Ammo-29-DL Navy Electrical Explosives Safety (4E-F35/645-F19 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It is designed to teach basic regulatory guidance for correctly inspecting, testing, documenting, and managing electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. This fulfills the refresher training requirements for Electrical Explosives Safety for Naval Facilities. This refresher training course provides the basic regulatory guidance to correctly inspect, test, document, and manage electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. Course content includes the identification of lightning protection systems and components, design criteria, and requirements for grounding, bonding, control of static electricity, and electrical equipment in hazardous (classified) locations. An overview of the Hazards of Electromagnetic Radiation to Ordnance (HERO), Fuel (HERF), and Personnel (HERP) is also presented.

Ammo-31-DL Environmental Considerations for Ammunition Personnel (9E-F64/920-F32 (DL))

This course is designed to familiarize the learner with environmental considerations that must be taken into account during all phases of ammunition and explosive operations. This course is based on environmental laws and regulations that have the most influence over ammunition and explosive operations. It presents environmental considerations that must be taken into account during all phases of ammunition and explosive operations.

Ammo-33 Explosives Safety and Environmental Risk Management (9E-F65/920-F33 (MC))

This course provides students with a basic knowledge of ammunition characteristics, ammunition safety, and environmental regulations. Basic explosives principles, the Navy Explosives Safety Program, ammunition storage, ammunition security requirements, transportation requirements, daily operations, explosives accident/incident reporting, public affairs, explosives inspections, and station environmental compliance are covered.

Ammo-36 Explosives Safety for Naval Facility Planning (4E-F36/645-F20 (MC))

This course provides preparation and review of Navy site plans submitted for various explosives facilities. This course includes an in-depth review of Department of Defense (DoD) quantity distance standards and an application of these standards in the form of a Facility Design Problems Workshop.

Ammo-36-DL Explosives Safety for Naval Facility Planning (4E-F51/645-F35 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It instructs Naval personnel in Quantity Distance Standards for explosives used by the Navy to prepare facility site plans. This refresher training course provides a comprehensive review of Quantity Distance Standards used by the Navy in preparation and review of Site Plans. This course includes an in-depth review of Department of Defense (DOD) quantity distance standards and an application of these standards in the form of Facility Design Problems exercises.

Ammo-37-DL General Transportation of Hazardous Materials Refresher (9E-F66/920-F34 (DL))

This course is a certification course in accordance with 49 CFR and DOD 4500.9-R. It is designed to provide refresher training for persons who certify hazardous materials for transportation IAW Chapter 204 of DOD 4500.9-R. This refresher training course provides updated information for persons who certify hazardous materials for transportation. Course content includes review of changes to the 49 Code of Federal Regulations, International Maritime Dangerous Goods (IMDG) Code, the International Air Transport Association (IATA) Dangerous Goods Regulation and the Air Force Manual 24-204_IP. Course includes emphasis on shipping papers, marking, labeling, placarding, packaging, compatibility, and emergency response information.

Ammo-14 Ammunition Surveillance (4E-F31/645-F15)

This course provides an introduction to basic procedures and actions associated with inspecting a range of ammunition items to determine serviceability, to include applicable computer-generated forms and reports. Students will learn the procedures for inspecting ammunition facilities, monitoring various ammunition operations, and determine the equipment, tools, and reference materials needed to perform ammunition inspections and tests. Students will also learn about the administrative methods used to clear ammunition lots for shipment, suspension and restriction controls, and inspection procedures for both outbound and incoming ammunition shipments.

Ammo-18-DL Basics of Naval Explosives Hazard Control (4E-F29/645-F13 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It is designed to teach basic hazards of ammunition and explosives, along with an introduction to explosives safety principles and practices. This course presents the basic hazards of ammunition and explosives, along with an introduction to explosives safety principles and practices. Characteristics of ammunition and explosives, storage compatibility, and quantity distance requirements are introduced. Control of hazards, transportation, and various handling operations are also covered. An explanation of the Navy Safety and Qualification/Certification program will be given.

Ammo-28 Army Electrical Explosives Safety (4E-F32/645-F16 (MC))

Course provides basic regulatory guidance and familiarization with methods and procedures to correctly inspect, test, document and manage electrical safety aspects that apply to explosives storage and operating facilities. An overview of static electricity generation and control, electromagnetic radiation hazards to ordnance, fuel and personnel, and electrical equipment requirements for hazardous (classified) locations. Content includes lightning generation and its effects in regard to personnel, equipment, and structures. Identification of Lightning Protection System (LPS) design criteria and requirements, computing zones of protection, requirements for bonding and LPS component specifications. LPS inspection and testing methodology, test equipment operation, and effective record keeping are stressed. Both Army guidance and National Fire Protection Association Standards are utilized

Ammo-28-DL Army Electrical Explosives Safety (4E-F33/645-F17)

This course is a certification course in accordance with AR 385-10/DA PAM 385-64. It is designed to teach the design, installation, test, inspection, and maintenance of electrical equipment, static dissipation systems, lightning protection systems, and bonding in explosives facilities. The Army electrical Explosive Safety course provides basic regulatory guidance and familiarization with methods and procedures to correctly inspect, test, document and manage electrical safety aspects that apply to explosives storage and operating facilities. Content includes lightning generation and its effects in regard to personnel, equipment, and structures. Lightning Protection System (LPS) design criteria and requirements, computing zones of protection, requirements for bonding and LPS component specifications are specified. LPS inspection and testing methodology, test equipment operation, and effective record keeping are stressed. LPS inspection and testing methodology, test equipment operation, and effective record keeping are stressed. Both Army guidance and National Fire Protection Association Standards are utilized.

Ammo-29 Navy Electrical Explosives Safety (4E-F34/645-F18 (MC))

This course provides the basic regulatory guidance to correctly inspect, test, document, and manage electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. Course content includes the identification of lightning protection systems and components, design criteria, and requirements for grounding, bonding, control of static electricity, and electrical equipment in hazardous (classified) locations. An overview of the Hazards of Electromagnetic Radiation to Ordnance (HERO), Fuel (HERF), and Personnel (HERP) is also presented.

Ammo-29-DL Navy Electrical Explosives Safety (4E-F35/645-F19 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It is designed to teach basic regulatory guidance for correctly inspecting, testing, documenting, and managing electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. This fulfills the refresher training requirements for Electrical Explosives Safety for Naval Facilities. This refresher training course provides the basic regulatory guidance to correctly inspect, test, document, and manage electrical safety aspects as they apply to explosive operating and handling facilities and storage areas. Course content includes the identification of lightning protection systems and components, design criteria, and requirements for grounding, bonding, control of static electricity, and electrical equipment in hazardous (classified) locations. An overview of the Hazards of Electromagnetic Radiation to Ordnance (HERO), Fuel (HERF), and Personnel (HERP) is also presented.

Ammo-31-DL Environmental Considerations for Ammunition Personnel (9E-F64/920-F32 (DL))

This course is designed to familiarize the learner with environmental considerations that must be taken into account during all phases of ammunition and explosive operations. This course is based on environmental laws and regulations that have the most influence over ammunition

and explosive operations. It presents environmental considerations that must be taken into account during all phases of ammunition and explosive operations.

Ammo-33 Explosives Safety and Environmental Risk Management (9E-F65/920-F33 (MC))

This course provides students with a basic knowledge of ammunition characteristics, ammunition safety, and environmental regulations. Basic explosives principles, the Navy Explosives Safety Program, ammunition storage, ammunition security requirements, transportation requirements, daily operations, explosives accident/incident reporting, public affairs, explosives inspections, and station environmental compliance are covered.

Ammo-36 Explosives Safety for Naval Facility Planning (4E-F36/645-F20 (MC))

This course provides preparation and review of Navy site plans submitted for various explosives facilities. This course includes an in-depth review of Department of Defense (DoD) quantity distance standards and an application of these standards in the form of a Facility Design Problems Workshop.

Ammo-36-DL Explosives Safety for Naval Facility Planning (4E-F51/645-F35 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1, Appendix D. It instructs Naval personnel in Quantity Distance Standards for explosives used by the Navy to prepare facility site plans. This refresher training course provides a comprehensive review of Quantity Distance Standards used by the Navy in preparation and review of Site Plans. This course includes an in-depth review of Department of Defense (DOD) quantity distance standards and an application of these standards in the form of Facility Design Problems exercises.

Ammo-37-DL General Transportation of Hazardous Materials Refresher (9E-F66/920-F34 (DL))

This course is a certification course in accordance with 49 CFR and DOD 4500.9-R. It is designed to provide refresher training for persons who certify hazardous materials for transportation IAW Chapter 204 of DOD 4500.9-R. This refresher training course provides updated information for persons who certify hazardous materials for transportation. Course content includes review of changes to the 49 Code of Federal Regulations, International Maritime Dangerous Goods (IMDG) Code, the International Air Transport Association (IATA) Dangerous Goods Regulation and the Air Force Manual 24-204_IP. Course includes emphasis on shipping papers, marking, labeling, placarding, packaging, compatibility, and emergency response information

Ammo-38 Guided Missiles and Large Rockets (4E-F66/645-F50)

This course provides certification for personnel enrolled in Career Program (CP) 20, Quality Assurance Specialist (Ammunition Surveillance) and CP 33, Ammunition Management Intern Programs IAW AR 690-950, Career Management, and AR 385-10, Army Safety Program.

Ammo-43 Intermodal Dry Cargo Container/ CSC Reinspection (8A-F60/551-F52 (MC))

This course provides information required to reinspect intermodal dry cargo containers IAW the CSC standards. Course content includes overview of various CSC container types, container structural and non-structural components, and a detailed analysis of reinspection criteria required by CSC, U.S. Public Law, and Joint Service Regulations. Reporting requirements and reinspection decal placement are also discussed

Ammo-43-DL Intermodal Dry Cargo Container/(CSC) Reinspection (8A-F62/551-F54 (DL))

This is a certification course required by 49 CFR and International Treaty. It is designed to provide Department of Defense (DOD) CSC Inspectors with the knowledge, skills, and abilities to properly re-inspect intermodal dry cargo containers IAW the CSC standards. This course must be successfully completed every four years in order to retain certification status. This course provides the up-to-date requirements, techniques, and procedures for re-inspection of intermodal dry cargo containers. Course content includes overview of various CSC container types, container structural and non-structural components, and a detailed analysis of re-inspection criteria required by CSC, U.S. Public Law, and Joint Service Regulations. Reporting requirements and re-inspection decal placement are also discussed.

Ammo-45-DL Introduction to Ammunition (9E-F67/920-F35 (DL))

This is a certification course in accordance with AR 385-10/DA Pam 385-64. It is designed to teach basic safety and technical aspects involved in hands-on exposure to ammunition and explosives items and/or operations. This course provides training in basic safety and fundamental technical aspects involved in hands-on exposure to ammunition items and/or operations. Course content introduces the characteristics of different classes of ammunition and explosives, also the safe handling procedures and explosive safety requirements for the receipt, storage, maintenance, demilitarization, and issue of ammunition at US Army installations.

Ammo-47 Air Force Electrical Explosive Safety (4E-F37/645-F21 (MC))

This course familiarizes personnel who design, inspect, maintain, repair, modify, and test lightning protection systems in the following disciplines: test equipment operation, grounding and bonding theory and practices, referenced codes and standards. Specific content includes the detrimental effects that lightning has in regard to personnel, equipment, weapons systems, and structures. A brief discussion of how lightning is generated and how it behaves is presented followed by lightning protection systems design criteria. Methods to provide a proper zone of protection (area protected from the detrimental effects from lightning) are presented to include air terminal spacing, down conductor criteria, mast and overhead wire height, and specific criteria spelled out in NFPA 780 and Air Force Instruction 32-1065. Galvanic corrosion is discussed in relation to proper bond surface preparation and connection. One day of the class is allocated to a field exercise involving visual inspection and electrical test procedures for lightning protection systems. Students must be able to demonstrate proficiency through proper utilization of test equipment and a written examination.

Ammo-47-DL Air Force Electrical Explosive Safety (4E-F38/645-F22 (DL))

This is a certification course in accordance with AFI 32-1065. It was designed to provide training for personnel involved in the design, installation, test, and inspection of electrical services and lightning/grounding systems in hazardous locations on Air Force installations. This course educates students on the detrimental effects of lightning to personnel, equipment, weapons systems, and structures. Course topics include lightning protection systems design criteria, methods for providing proper zones of protection, spacing for air terminals, criteria for down conductors, height of mast and overhead wires, and NFPA 780 and Air Force Instruction 32-1065 criteria.

Ammo-49-DL Naval Explosives Safety Managers/Supervisors Orientation (4E-F39/645-F23 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1 Appendix D. It is designed provide personnel with supervisory duties over ammunition and explosives operations at shore facilities with general overview of explosives safety requirements. This course provides a detailed overview of general ammunition and explosives safety training. The training introduces the different classes of ammunition and explosives stressing safe handling and explosives safety requirements. The training emphasizes use of Navy publications and instructions for extracting information required to safely manage ordnance operations. Course content provides scenarios where the student must be able to find and use referenced information to solve problems.

Ammo-51-MV-DL Naval Motor Vehicle Inspection (4E-F42/645-F26 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1 Appendix D. It is designed to provide refresher training for personnel assigned to inspect motor vehicles transporting ammunition and explosives in accordance with the standards cited in NAVSEA SW020-AF-HBK-010. This refresher training course provides inspection personnel with up-to-date requirements, techniques, and procedures for inspection of motor vehicles on and off station for ammunition and explosives. Students are provided instruction in compatibility, placarding requirements, and blocking and bracing for ISO intermodal containers, non-tactical and tactical vehicles. Also discussed are Department of Defense (DOD) and Navy transport equipment inspection procedures using DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Material), Navy transportation safety requirements, and security of sensitive conventional arms, ammunition, and explosives.

Ammo-51-MV/RC Naval Motor Vehicle and Railcar Inspection (4E-F40/645-F24 (MC))

This course is a basic training course required by NAVSEA OP 5, Volume 1, and NAVSEA SW020-AF-HBK-010. It provides newly assigned inspection personnel with the up-to-date requirements, techniques, and procedures for inspection of motor vehicles and railcars on and off station for ammunition and explosives. This course provides students with instruction in compatibility, placarding requirements, and blocking and bracing for ISO intermodal containers,

railcar, non-tactical and tactical vehicles. Additionally, Department of Defense (DOD), and Navy transport equipment inspection procedures using DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Material), and NAVSEA Form 8023/3 are taught. Navy transportational safety requirements and security of sensitive conventional arms, ammunition, and explosives are also covered.

Ammo-51-MV Naval Motor Vehicle Inspection (4E-F41/645-F25 (MC))

This course is a basic training course required by NAVSEA OP 5, Volume 1, and NAVSEA SW020-AF-HBK-010. It provides newly assigned inspection personnel with the up-to-date requirements, techniques, and procedures for inspection of motor vehicles on and off station for ammunition and explosives. This course provides students with instruction in compatibility, placarding requirements, and blocking and bracing for ISO intermodal containers, non-tactical and tactical vehicles. Additionally, Department of Defense (DOD), and Navy transport equipment inspection procedures using DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Material), are taught. Navy transportation safety requirements and security of sensitive conventional arms, ammunition, and explosives are also covered.

Ammo-51-RC-DL Naval Railcar Inspection (4E-F43/645-F27 (DL))

This course is a certification course in accordance with NAVSEA OP 5, Volume 1 Appendix D. It is designed to provide refresher training for personnel assigned to inspect rail cars transporting ammunition and explosives in accordance with the standards cited in NAVSEA SW020-AF-HBK-010. This refresher training course provides up-to-date requirements, techniques, and procedures for inspection of railcars on and off station for ammunition and explosives. Students are provided instruction in compatibility, placarding requirements, and blocking and bracing for ISO intermodal containers. Also discussed are Department of Defense (DOD) and Navy transport equipment inspection procedures using NAVSEA Form 8023/3, Navy transportation safety requirements, and security of sensitive conventional arms, ammunition, and explosives.

Ammo-54 Risk Management and Preparation of SOPs for Ammunition and Explosive Operations (9E-F60/950-F39)

This course provides training to prepare and review ammunition and explosives SOPs in accordance with Federal, Department of Defense, Department of the Army, and U.S. Army Materiel Command (AMC) regulatory requirements to personnel engaged in ammunition and explosives operations. This course has incorporated a broad overview of hazard analysis and risk management designed to familiarize students assigned to various munitions-related disciplines. Students learn procedures to identify hazards, manage risks, and prepare and review SOPs through a series of individual and group written exercises and presentations.

Ammo-54-DL Risk Management and Preparation of SOPs for Ammunition and Explosive Operations (9E-F68/920-F36 (DL))

This course is a certification course in accordance with AR 385-10/DA Pam 385-64. It is designed to teach the risk management process and how to prepare Standard Operating Procedures (SOPs) IAW the guidance in AMC-R 700-107. This course provides instruction on the Risk Management process and preparation of Standing Operating Procedures (SOP) for ammunition and explosives (A&E) operations IAW AMC-R 700-107 and Federal, DoD, DA, and AMC regulatory requirements. It incorporates a broad overview of hazard analysis and risk management, and then students learn procedures to identify hazards, manage risks, and to prepare and review SOPs through a series of exercises and presentations.

Ammo-60 Technical Ammunition (4E-F23/645-F10 (MC))

This course provides detailed training in the technical aspects of managing ammunition and explosives and ammunition-related operations. Course content includes interpretation of references, explosives safety issues, hazard classification system, managing explosives limits, ammunition maintenance, electrical explosives safety, storage operations, physical security, risk management, and transportation issues. This course is intended for personnel who manage, supervise, plan, or are otherwise involved in ammunition operations. This course is intended to meet the requirements for certification of personnel under the provisions specified in AMC-R 350-4 and FORSCOM-R 350-10.

Ammo-62 Technical Transportation of Hazardous Materials (9E-F58/322-F37 (MC))

This course provides personnel from all services detailed technical information pertaining to all phases of transportation for hazardous materials, and satisfies the mandatory training for persons who certify hazardous materials and conduct function-specific training for subordinate personnel as specified in the Defense Transportation Regulation (DOD 4500.9-R). Course content regulations governing the transportation of hazardous materials by all modes (i.e. land, vessel, and commercial/military air). International regulations covered include the International Maritime Dangerous Goods Code and the International Commercial Air Transport Associations Dangerous Goods Regulations. United States regulations covered include the Department of Transportation (DOT) 49 Code of Federal Regulations (CFR) and U.S. military regulations. Course materials include emphasis on shipping papers, marking, labeling, placarding, packaging, compatibility, and emergency response information.

Ammo-63-DL U.S. Army Explosives Safety Familiarization (4E-F44/645-F28 (DL))

This course is a certification course in accordance with AR 385-10/DA Pam 385-64. It was designed to provide a detailed overview of explosives safety practices for US Army personnel working in ammunition operations. This course covers four major topic areas regarding explosives safety: Characteristics of Propellant and Explosives introduces basic terminology associated with explosives, propellants, and ammunition items; Hazard Classification covers how hazard classes, divisions, and compatibility groups are used to enhance the safety of ammunition items during storage and transportation; Intro to Quantity Distance discusses the basic terms and principles of quantity distance, categories of QD protection, and regulatory

guidance; Operational Safety covers general safety practices such as fire prevention measures, maintenance and demilitarization, facilities requirements, storage principles, standing operating procedures, and hazard analysis.

Ammo-64-DL Class V Issue and Turn-In Procedures for Using Units (4E-F45/645-F29 (DL))

This course is designed to instruct military personnel in the procedures to properly request, draw, and turn-in Class V materials for their units. This course prepares students for requesting and drawing Class V items for their unit. The subjects covered include ammunition authorizations, requests, issues, field accountability, sub-unit turn-ins, preparing ammunition for turn-in, reconciliation, and the amnesty program.

Ammo-65 DOD Contractor's Explosives Safety Standards

This course focuses on the requirements of DOD 4145.26, DOD Contractor's Safety Manual for Ammunition and Explosives. The course addresses those safety requirements peculiar to explosives operations performed under contract to the DOD, at both contractor and government-owned facilities. Also addressed is contractor operations and contractual safety requirements, which will help managers, supervisors, and safety professionals understand, interpret, and uniformly apply the contract safety requirements of the DOD contractors Safety Manual. A field trip to a Defense contractor production facility is included as part of the course.

Ammo-66-DL Radiation Safety (4K-F30/494-F35 (DL))

This course provides personnel designated to serve as unit Radiation Safety Officers with a broad understanding of ionizing radiation and the safety practices used to limit human exposure. This course covers the general characteristics of radioactive materials, how and why these materials are used, the potential hazards associated with various isotopes, the regulations governing how these materials are to be used, stored, transported and disposed, and the methods used to limit and document exposures.

Ammo-67-DL HAZMAT Familiarization and Safety in Transportation (9E-F69/920-F37 (DL))

This course is a certification course in accordance with 49 CFR and DOD 4500.9-R. It is specifically designed to fulfill the need for general awareness/familiarization, safety and security awareness training for HAZMAT employees as required by 49 Code of Federal Regulations(CFR), Section 172.704. It does not fulfill the need for function specific or in-depth security training also required by 49 Code of Federal Regulations (CFR), Section 172.704. This course provides training associated with the transportation of hazardous materials. Focus is on the nine hazard classes and documents associated with shipping hazardous materials.

Ammo-68-DL Military Munitions Rule (MMR) (4E-F46/645-F30 (DL))

This course is a certification course in accordance with AR 385-10/DA Pam 385-64. It was designed to provide essential information to personnel involved in leading, supervising, managing, planning, or conducting any operation involving waste military munitions (WMM). It

instructs as to when military munitions may become waste, and provides methods to conduct WMM operations that are consistent throughout the DoD. This course covers when military munitions may become waste, and the following methods to conduct WMM operations that are consistent throughout the DoD: inventories, inspections, storage, transportation, production, permitting, disposal, firing range operations, recycling and emergency response.

Ammo-71-DL Ammunition Tools and Equipment (4E-F47/645-F31 (DL))

This course familiarizes students with Ammunition Peculiar Equipment (APE) as well as the proper selection and use of hand tool, gauges, and other precision measuring devices used in ammunition inspection and maintenance operations. This course explains the Ammunition Peculiar Equipment (APE) Program and provides information about the different types of APE and their uses. The student will become familiar with hand tools, gauges and precision measuring devices used in ammunition operations such as inspection and maintenance. This course also introduces the calibration requirements for test, measurement and diagnostic equipment (TMDE).

Ammo-74 Explosives Safety Officer Orientation Course (4E-F48/645-F32 (MC))

This course provides training for individuals assigned Explosives Safety Officers (ESO) duties training in the technical and managerial aspects of Naval explosives safety programs. Emphasis is on ESO responsibilities listed in NAVSEA OP 5, Volume 1 and Marine Corps Order 8020.10. This course provides foundational training in Command Administration and Management, Qualification and Certification, Standing Operating Procedures (SOPs), Ammunition Storage/Magazine, Operating Buildings and Production Lines, Lightning Protection/Grounding, Environmental Compliance, Arms Ammunitions and Explosives (AA&E) Physical Security, Ranges and Explosives Ordnance Disposal (EOD), Motor Vehicle Transportation, Railroad Transportation, Piers and Wharves/Barges, Airfield Operations, Ammunition/Explosives Associated Equipment, Inventory Management, and general safety concepts. The material presented in this course will expand the Explosives Safety Officer's knowledge base by exposing the student to process, procedures, and Explosives Safety Programs.

Ammo-75-DL Ammunition Physical Security (4E-F49/645-F33 (DL))

This course covers the requirements of the Army's physical security program as it pertains to the storage of ammunition and explosives. This course covers the requirements of the Army's physical security program as it pertains to the storage of ammunition and explosives. Students will utilize AR 190-11, Physical Security of Arms, Ammunition and Explosives, and the FED LOG to determine Controlled Inventory Item Codes (CIIC's) and associated security risk categories, physical security measures used for ammunition sites and special requirements for security risk categories I and II.

Ammo-76-DL Identification of Ammunition (4E-F50/645-F34 (DL))

This course provides a basic introduction to the logistical terms used to identify and manage ammunition stockpiles. This course provides details on National Stock Numbers (NSNs) and their component elements, DOD Identification Codes (DODICs), and the use and interpretation of ammunition lot numbers and propellant lot numbers.

Ammo-77-ART-DL Artillery Ammunition (4E-F52/645-F36 (DL))

This course provides technical personnel with a basic knowledge of artillery ammunition. This course defines various terms related to artillery ammunition and identifies which items fall into this family of ammunition. The students will be provided with an understanding of the functioning characteristics of artillery ammunition as well as components and identification and packaging specifications.

Ammo-77-B-DL Bombs (4E-F53/645-F37 (DL))

This course provides technical personnel with a basic knowledge of bombs. This course defines various terms related to bombs and provides a description of the different types of bombs and associated components. Also provided is information on the general packaging, marking, and safety precautions unique to the different types of bombs.

Ammo-77-CP-DL Cartridge Actuated Devices and Propellant Actuated Devices (CAD/PAD) (4E-F54/645-F38 (DL))

This course provides technical personnel with a basic knowledge of CADs/PADs. This course defines various terms related to Cartridge Actuated Devices (CADs) and Propellant Actuated Devices (PADs). This course introduces the proper use and management of these items with specific regard to shelf and service life limits.

Ammo-77-CPE-DL Characteristics of Propellant and Explosives (4E-F55/645-F39 (DL))

This course provides technical personnel with a basic knowledge of the properties of propellants and explosives used in ammunition items. This course introduces the basic terminology associated with explosives, propellants, and ammunition items. This course also covers the major categories and characteristics of high and low explosives and chemical ammunition fillers.

Ammo-77-DM-DL Demolition Materials (9E-F61/322-F38 (DL))

This course provides technical personnel with a basic knowledge of demolition materials. This course defines various terms related to demolition materials and identifies which items belong to this family of ammunition. This course will introduce the different firing systems used during demolition operations and the components that make up these systems. Specific applications of various devices and charges used during emergency and combat situations will also be discussed.

Ammo-77-G-DL Grenades (4E-F56/645-F40 (DL))

This course provides technical personnel with a basic knowledge of grenades. This course defines various terms related to grenades and identifies which items belong to this family of ammunition. The student will learn the functioning characteristics and components of grenades.

Ammo-77-LM-DL Land Mines (4E-F57/645-F41 (DL))

This course provides technical personnel with a basic knowledge of land mines. This course defines various terms related to land mines and identifies the types, components, purpose, and safety hazards of mines currently used in the Army.

Ammo-77-P-DL Propellant (4E-F58/645-F42 (DL))

This course is designed for personnel requiring a more detailed knowledge of propellants, to include their characteristics and use. This course introduces the student to the basic terminology associated with military propellants. It covers the major categories of propellant and how grain configurations affect burning characteristics. It also describes how the Army and Navy Propellant Stability Programs function to enhance the safe storage and use of propellants.

Ammo-77-PY-DL Pyrotechnics (4E-F59/645-F43 (DL))

This course provides technical personnel with a basic knowledge of pyrotechnics. This course defines various terms related to military pyrotechnics and smoke pots. This course will introduce the characteristics of pyrotechnic compositions and different categories of pyrotechnic items.

Ammo-77-RK-DL Rockets (4E-F60/645-F44 (DL))

This course provides technical personnel with a basic knowledge of rockets. This course defines various terms related to rockets and identifies which items belong to this family of ammunition. The students will learn about shoulder-fire and aircraft rockets and their military applications in the Army, Navy, and Air Force.

Ammo-77-SAA-DL Small Arms Ammunition (4E-F61/645-F45 (DL))

This course provides technical personnel with a basic knowledge of small arms ammunition. This course will define small arms ammunition as well as associated terminology. This course will introduce the general components and types of small arms ammunition items. Marking, color coding, and packing specifications inherent to small arms ammunition items will also be addressed.

Ammo-78-DL Ammunition Publications (4E-F62/645-F46 (DL))

This course is a certification course in accordance with AR 385-10/DA Pam 385-64. It is designed to provide students with a general understanding of the hierarchy, purpose, content, and change management practices of DOD and Service publications. This course describes the various publications used by all branches of service within the Department of Defense (DOD).

The course provides familiarization in the purpose, content, and format of DOD, Army, Air Force, and Navy publications. It also provides the numbering systems used to identify the various publications.

Ammo-79-DL Ammunition Drawings (4E-F63/645-F47 (DL))

This course provides information required to interpret engineering drawings related to ammunition items, packaging, and marking. This course provides familiarization for the content, format, and symbols used in engineering drawings as well as instruction on how to use the various sources available to locate and view drawings and drawing numbers.

Ammo-82 U.S. Army Explosives Safety Quantity Distance and Site Planning (4E-F24/431-F8)

This course provides in-depth training in ammunition explosives safety quantity distance concepts and practices. It includes instruction in the interpretation and use of explosives safety quantity distance tables, the application and use of explosives safety considerations not given in explosives safety quantity distance tables, determining safety distance measurement points, managing previously determined explosive limits, and an introduction to the documentation requirements of the site approval process.

Ammo-86-DL Transportation of Radioactive Materials (4K-F31/494-F36 (DL))

To provide supplemental instruction in the unique shipping requirements associated with Hazard Class 7 materials. This course was exclusively designed to provide supplemental instruction in the unique shipping requirements associated with Hazard Class 7 materials. It is not intended to be a stand-alone certification course.

Ammo-87-DL Military Munitions Response Program (MMRP)

This course provides an introduction to the Military Munitions Response Program (MMRP) used by the US Army Corps of Engineers to evaluate areas potentially contaminated with military munitions and prioritize remediation actions. Students receive a general overview of the rationale behind the MMRP, learn when it is applicable, and learn about the roles, responsibilities, and interactions of the various stakeholders. The course covers several types of responses to address munitions and explosives of concern (MEC) and munitions constituents (MC). Categories of response include: identification, detection, investigation, removal actions, and remedial actions.

Ammo-90-DL Munitions Response Site Prioritization Protocol (MRSP)

This introductory course covers the Munitions Response Site Prioritization Protocol (known as the Protocol). The Protocol is a tool developed by DOD to assign a relative priority to Munitions Response Sites (MRS) by gathering data using three hazard evaluation modules: Explosives hazards; Chemical Warfare Materiel hazards; and Health hazards.

Ammo-97-DL Munitions History Program (MHP) (4E-F64/645-F48 (DL))

This course provides instructions on how to navigate, access, and create data within the Munitions History Program (MHP) website. This course provides extensive information to successfully navigate within the MHP website, retrieve Depot Surveillance Records (DSR), and create new inspection records and data record headers. Students will become familiar with main menu modules, submenus, links, and other useful features and resources available in MHP.

Ammo-99-DL Application of US Army ESQD Principles (4E-F65/645-F49 (DL))

This course is a certification course in accordance with AR 385-10/DA Pam 385-64. It provides instruction in the application of explosives quantity-distance regulations and principles in order to determine the minimum required levels of protection for facilities, material, and personnel. This course includes details on the various levels of protection, expected damage effects caused by an accidental explosion at each level, interpretation of textual and tabular instructions for determining minimum separation distances or explosives limits. It also includes discussion on the use of protective construction.

Ammo-100-DL Army Explosives Safety Site Planning (CERT) (4E-F25/431-F9 (DL))

This course is designed to provide the types of information and documentation needed to successfully submit preliminary/final explosives safety site plans. This course provides instruction on the types of information and documentation needed to successfully submit preliminary/final explosives safety site plans. This includes the transmittal letter, location and site maps, explosives safety quantity distance considerations, coordination with all appropriate installation activities, construction requirements, PES/ES QD paired relationships with the facilities being sited, and the approval process.

Ammo-101-DL Tutorial for Using DDESB Approved Automated QD Calculator (Army)

This course provides instruction on the use of the DDESB approved Excel spreadsheet based Automated QD Calculator. Given a potential explosion site/exposed site relationship, the calculator can accurately determine either the minimum required separation distance for any net explosives weight for quantity distance purposes (NEWQD), or given a separation distance, the maximum NEWQD limit. It's applicable to HD 1.1 through 1.4. The calculator is intended to provide much more accurate distances or NEWQD than using the QD tables alone.

Ammo-102-DL Tutorial for Using DDESB Approved Automated QD Calculator (Air Force, Navy, Marines)

This course provides instruction on the use of the DDESB approved Excel spreadsheet based Automated QD Calculator. Given a potential explosion site/exposed site relationship, the calculator can accurately determine either the minimum required separation distance for any net explosives weight for quantity distance purposes (NEWQD), or given a separation distance, the maximum NEWQD limit. It's applicable to HD 1.1 through 1.4. The calculator is intended to provide much more accurate distances or NEWQD than using the QD tables alone.

Ammo-104-DL ES Awareness in MN Operations for Commanders

Upon successful completion of this course, students will be aware of explosives safety management requirements in multinational (MN) operations, how to work within MN partnerships, know the fundamental considerations for MN operations and the intent of explosives safety management (ESM). All of which will prepare students for working in MN environments that require communicating and working with partners from different nations.

Ammo-105-DL ES Awareness in MN Operations for Technical Staff

Upon successful completion of this course, students will be aware of explosives safety management requirements in multinational (MN) operations, how to work within MN partnerships, know the fundamental considerations for MN operations, the intent of explosives safety management (ESM), and how to properly apply explosives safety standards identified in AASTP-1 and AASTP-5. All of which will prepare students for working in MN environments that require communicating and working with partners from different nations.

Ammo-107 Introduction to Explosives Safety Management for Safety Professionals (4E-F30/645-F14 (MC))

This course provides a general overview of ammunition and explosives regulations and practices for members of Army Career Program 12 (Safety and Occupational Health).

Ammo-107-DL Introduction to Explosives Safety Management for Safety Professionals (4E-F26/431-F10 (DL))

This course supports Level 1 certification requirements for Army CP 12 (Safety and Occupational Health) personnel IAW AR 385-10/DA PAM 385-64 by providing Army CP 12 (Safety and Occupational Health) personnel the general knowledge and skills to apply ammunition and explosives safety regulations and practices. This course presents major topics related to standard risk management practices in an ammunition/explosives safety context to include: Explosives Safety Program Management and Resources, Explosives Materials, Basics of Explosives Safety, Explosives Safety Site Planning and Licensing, and Ammunition Malfunction and Incident Procedures.

Ammo-108-DL Ammo Handlers (CERT) (4E-F27/645-F11 (DL))

This is a certification course in accordance with IMCOM Regulation 5-13. It is designed to prepare students to safely perform ammunition handling procedures at an ASP. This course is presents a fundamental understanding of safe ammunition handling procedures. Learners will identify the requirements for vehicle inspection and safe transportation of ammunition. Learners will also be able to request, receive, turn-in, and store training, operational-load, and combat-load munitions.

Ammo-112-DL Ammunition & Explosives Storage Safety (CERT) (4E-F28/645-F12 (DL))

This course is a certification course in accordance with AR 385-10/DA PAM 385-64. It is designed to instruct safety professionals in the use and application of governing regulations and procedures for the safety of ammunition and explosives in storage. This course provides basic information and training in the use and application of governing regulations and procedures for the safety of ammunition and explosives in storage. The course provides a working knowledge of storage operations at the retail and depot levels. The training includes storage facilities, safety, drawings and planographs, as well as administrative documentation applications. Focus on best practices/tips/pointers, best way of doing things, specific issues to watch out for, etc. Examples of problems and what to look for; unstable stacks, broken banding, what equipment can be used in an area, what kind of operations can be performed in storage facilities, etc. This course does not cover physical security or administrative documentation.

PACK-1A-DL Defense Basic Preservation and Packaging (Phase 1) (8A-F63/551-F55 (DL))

This course is a certification course in accordance with AR 700-15 and a prerequisite for 8A-F61/551-F53 (PACK-1B). It is designed to teach military packaging and preservation methods. This course provides in-depth training in the application of military packaging policy criteria and packaging specifications and standards to real-world scenarios. The course focuses on military packaging and preservation methods that include cleaning and drying processes, preservation materials and application, cushioning, unit and intermediate packing methods, military marking and labeling, outer packing procedures, palletized and unitized loads, containerization, and blocking and bracing.

PACK-1B Military Preservation and Packaging for Storage and Shipment (Phase 2) (8A-F61/551-F53)

This course is designed to provide hands-on, performance-based training for uniformed military, civil service, and DOD contractor personnel in basic and intermediate military preservation, packaging, and unitization procedures.